

California Department of Boating and Waterways



Aquatic Weed Programs

The Culprits



Impacts of Aquatic Weeds

- Crowds out native plants
- Impedes water flows
- Entraps sediments
- Concentrates heavy metals
- Obstructs waterways
- Clogs water intakes for agriculture
- Impedes anadromous fish migration patterns
- Alters habitat for resident species
- Impacts dissolved oxygen/water chemistry of the water column

Mandates

- Weed Control
 - SB 1344 (1982) and AB 2193 (1997) amended the California Harbors and Navigation Code to designate DBW as lead agency for the control of Water Hyacinth and *Egeria densa* in the waters of the Sacramento/San Joaquin Delta, its tributaries, and Suisun Marsh.

The Delta

- Water Hyacinth Control Program consists of eleven counties
 - Alameda, Contra Costa, Fresno, Madera, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Tuolumne and Yolo
- Egeria densa Control Program consists of six counties
 - Alameda, Contra Costa, Sacramento, San Joaquin, Solano, and Yolo

Regulatory Permits

- Both programs operate under the auspices of several federal and state agencies
 - Biological Opinions
 - United States Fish and Wildlife Service (USFWS)
 - National Marine Fisheries Service (NMFS)
 - National Pollution Discharge Elimination System
 - Central Valley Regional Water Quality Control Board (CVRWQCB)

Endangered Species



Water Quality Monitoring Parameters

- Temperature
- Conductivity
- Salinity
- pH
- Dissolved Oxygen
- Turbidity

Special Studies

- Mapping Invasive Species in the Delta – U.C. Davis – ongoing
- Fluridone and Diquat Sediment Accumulation – DFG – ongoing
- Monitoring Aquatic Herbicide Treatment Efficacy in the Delta – Remetrix LLC – ongoing
- Fluridone Dissipation During Typical Applications of Sonar – Dr. Lars Anderson, USDA-ARS – completed
- Acute Toxicities of Herbicides Used to Control Water Hyacinth and Brazilian Egeria of Larval Delta Smelt and Sacramento Splittail – DFG - completed

Treating *Egeria densa*



Treating Water Hyacinth

